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RAW SEQUENCE LISTING   DATE: 11/19/2002
PATENT APPLICATION: **US/09/634,363**   TIME: 14:23:58

Input Set : **N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-058SequenceListing.txt**
Output Set: **N:\CRF4\11192002\I634363.raw**

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   3 <110> APPLICANT: Pang, K.
   4         Lu, K.
   6 <120> TITLE OF INVENTION: METHODS AND REAGENTS FOR TREATING GLUCOSE METABOLIC
DISORDERS
   8 <130> FILE REFERENCE: CIBT-P02-058
  10 <140> CURRENT APPLICATION NUMBER: 09/634,363
  11 <141> CURRENT FILING DATE: 2000-08-09
  13 <150> PRIOR APPLICATION NUMBER: 09/499,526
  14 <151> PRIOR FILING DATE: 2000-02-10
  16 <160> NUMBER OF SEQ ID NOS: 4
  18 <170> SOFTWARE: PatentIn version 3.1
  20 <210> SEQ ID NO: 1
  21 <211> LENGTH: 108
  22 <212> TYPE: DNA
  23 <213> ORGANISM: Homo sapiens
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  26 <221> NAME/KEY: CDS
  27 <222> LOCATION: (1)..(108)
  28 <223> OTHER INFORMATION:
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  31 tac ccc atc aaa ccc gag gct ccc ggc gaa gac gcc tcg ccg gag gag        48
  32 Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
  33 1               5                   10                  15
  35 ctg aac cgc tac tac gcc tcc ctg cgc cac tac ctc aac ctg gtc acc        96
  36 Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
  37             20                  25                  30
  39 cgg cag cgg tac                                                       108
  40 Arg Gln Arg Tyr
  41         35
  43 <210> SEQ ID NO: 2
  44 <211> LENGTH: 36
  45 <212> TYPE: PRT
  46 <213> ORGANISM: Homo sapiens
  48 <400> SEQUENCE: 2
  50 Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
  51 1               5                   10                  15
  54 Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
  55             20                  25                  30
  58 Arg Gln Arg Tyr
  59         35
  61 <210> SEQ ID NO: 3
  62 <211> LENGTH: 1650
  63 <212> TYPE: DNA
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64 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING   DATE: 11/19/2002
PATENT APPLICATION: US/09/634,363   TIME: 14:23:59

                Input Set : N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-
058SequenceListing.txt
                Output Set: N:\CRF4\11192002\I634363.raw

    66 <220> FEATURE:
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    68 <222> LOCATION: (58)..(1380)
    69 <223> OTHER INFORMATION:
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    74 atg cgt ccc cac ctg tcg ccg ccg ctg cag cag cta cta ctg ccg gtg   105
    75 Met Arg Pro His Leu Ser Pro Pro Leu Gln Gln Leu Leu Leu Pro Val
    76 1   5   10   15
    78 ctg ctc gcc tgc gcc gcg cac tcg act gga gcc ctt ccc cga cta tgt   153
    79 Leu Leu Ala Cys Ala Ala His Ser Thr Gly Ala Leu Pro Arg Leu Cys
    80   20   25   30
    82 gac gtg cta caa gtg ctg tgg gaa gag caa gac cag tgc ctg cag gaa   201
    83 Asp Val Leu Gln Val Leu Trp Glu Glu Gln Asp Gln Cys Leu Gln Glu
    84   35   40   45
    86 ctc tcc aga gag cag aca gga gac ctg ggc acg gag cag cca gtg cca   249
    87 Leu Ser Arg Glu Gln Thr Gly Asp Leu Gly Thr Glu Gln Pro Val Pro
    88   50   55   60
    90 ggt tgt gag ggg atg tgg gac aac ata agc tgc tgg ccc tct tct gtg   297
    91 Gly Cys Glu Gly Met Trp Asp Asn Ile Ser Cys Trp Pro Ser Ser Val
    92 65   70   75   80
    94 ccg ggc cgg atg gtg gag gtg gaa tgc ccg aga ttc ctc cgg atg ctc   345
    95 Pro Gly Arg Met Val Glu Val Glu Cys Pro Arg Phe Leu Arg Met Leu
    96   85   90   95
    98 acc agc aga aat ggt tcc ttg ttc cga aac tgc aca cag gat ggc tgg   393
    99 Thr Ser Arg Asn Gly Ser Leu Phe Arg Asn Cys Thr Gln Asp Gly Trp
   100   100   105   110
   102 tca gaa acc ttc ccc agg cct aat ctg gcc tgt gcg gtt aat gtg aac   441
   103 Ser Glu Thr Phe Pro Arg Pro Asn Leu Ala Cys Ala Val Asn Val Asn
   104   115   120   125
   106 gac tct tcc aac gag aag cgg cac tcc tac ctg ctg aag ctg aaa gtc   489
   107 Asp Ser Ser Asn Glu Lys Arg His Ser Tyr Leu Leu Lys Leu Lys Val
   108   130   135   140
   110 atg tac acc gtg ggc tac agc tcc tcc ctg gtc atg ctc ctg gtc gcc   537
   111 Met Tyr Thr Val Gly Tyr Ser Ser Ser Leu Val Met Leu Leu Val Ala
   112 145   150   155   160
   114 ctt ggc atc ctc tgt gct ttc cgg agg ctc cac tgc act cgc aac tac   585
   115 Leu Gly Ile Leu Cys Ala Phe Arg Arg Leu His Cys Thr Arg Asn Tyr
   116   165   170   175
   118 atc cac atg cac ctg ttc gtg tcc ttc atc ctt cgt gcc ctg tcc aac   633
   119 Ile His Met His Leu Phe Val Ser Phe Ile Leu Arg Ala Leu Ser Asn
   120   180   185   190
   122 ttc atc aag gac gcc gtg ctc ttc tcc tca gat gat gtc acc tac tgc   681
   123 Phe Ile Lys Asp Ala Val Leu Phe Ser Ser Asp Asp Val Thr Tyr Cys
   124   195   200   205
   126 gat gcc cac agg gcg ggc tgc aag ctg gtc atg gtg ctg ttc cag tac   729
   127 Asp Ala His Arg Ala Gly Cys Lys Leu Val Met Val Leu Phe Gln Tyr
   128   210   215   220
   130 tgc atc atg gcc aac tac tcc tgg ctg ctg gtg gaa ggc ctc tac ctt   777

RAW SEQUENCE LISTING   DATE: 11/19/2002
PATENT APPLICATION: **US/09/634,363**   TIME: 14:23:59

Input Set : **N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-**
058SequenceListing.txt
Output Set: **N:\CRF4\11192002\I634363.raw**

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131 Cys Ile Met Ala Asn Tyr Ser Trp Leu Leu Val Glu Gly Leu Tyr Leu
132 225             230             235             240
134 cac aca ctc ctc gcc atc tcc ttc ttc tct gaa aga aag tac ctc cag      825
135 His Thr Leu Leu Ala Ile Ser Phe Phe Ser Glu Arg Lys Tyr Leu Gln
136             245             250             255
138 gga ttt gtg gca ttc gga tgg ggt tct cca gcc att ttt gtt gct ttg      873
139 Gly Phe Val Ala Phe Gly Trp Gly Ser Pro Ala Ile Phe Val Ala Leu
140             260             265             270
142 tgg gct att gcc aga cac ttt ctg gaa gat gtt ggg tgc tgg gac atc      921
143 Trp Ala Ile Ala Arg His Phe Leu Glu Asp Val Gly Cys Trp Asp Ile
144         275             280             285
146 aat gcc aac gca tcc atc tgg tgg atc att cgt ggt cct gtg atc ctc      969
147 Asn Ala Asn Ala Ser Ile Trp Trp Ile Ile Arg Gly Pro Val Ile Leu
148     290             295             300
150 tcc atc ctg att aat ttc atc ctt ttc ata aac att cta aga atc ctg      1017
151 Ser Ile Leu Ile Asn Phe Ile Leu Phe Ile Asn Ile Leu Arg Ile Leu
152 305             310             315             320
154 atg aga aaa ctt aga acc caa gaa aca aga gga aat gaa gtc agc cat      1065
155 Met Arg Lys Leu Arg Thr Gln Glu Thr Arg Gly Asn Glu Val Ser His
156             325             330             335
158 tat aag cgc ctg gcc agg tcc act ctc ctg ctg atc ccc ctc ttt ggc      1113
159 Tyr Lys Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile Pro Leu Phe Gly
160             340             345             350
162 atc cac tac atc gtc ttc gcc ttc tcc cca gag gac gct atg gag atc      1161
163 Ile His Tyr Ile Val Phe Ala Phe Ser Pro Glu Asp Ala Met Glu Ile
164         355             360             365
166 cag ctg ttt ttt gaa cta gcc ctt gcg tca ttc cag gga ctg gtg gtg      1209
167 Gln Leu Phe Phe Glu Leu Ala Leu Ala Ser Phe Gln Gly Leu Val Val
168     370             375             380
170 gcc gtc ctc tac tgc ttc ctc aac ggg gag gtg cag ctg gag gtt cag      1257
171 Ala Val Leu Tyr Cys Phe Leu Asn Gly Glu Val Gln Leu Glu Val Gln
172 385             390             395             400
174 aag aag tgg cag caa tgg cac ctc cgt gag ttc cca ctg cac ccc gtg      1305
175 Lys Lys Trp Gln Gln Trp His Leu Arg Glu Phe Pro Leu His Pro Val
176             405             410             415
178 gcc tcc ttc agc aac agc acc aag gcc agc cac ttg gag cag agc cag      1353
179 Ala Ser Phe Ser Asn Ser Thr Lys Ala Ser His Leu Glu Gln Ser Gln
180             420             425             430
182 ggc acc tgc agg acc agc atc atc tga gaggctggag cagggtcacc           1400
183 Gly Thr Cys Arg Thr Ser Ile Ile
184         435             440
186 catggacaga gaccaagaga ggtcctgcga aggctgggca ctgctgtggg acagccagtc   1460
188 ttcccagcag acaccctgtg tcctccttca gctgaagatg cccctcccca ggccttggac   1520
190 tcttccgaag gatgtgaggc actgtggggc aggacaaggg cctgggattt ggttcgtttg   1580
192 ctcttctggg aagagaagtt caggggtccc agaaagggac agggaaataa atggttgcct   1640
194 tgggatgaga                                                           1650
196 <210> SEQ ID NO: 4
197 <211> LENGTH: 440
198 <212> TYPE: PRT
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RAW SEQUENCE LISTING   DATE: 11/19/2002
PATENT APPLICATION: **US/09/634,363**   TIME: 14:23:59

Input Set : **N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-**
058SequenceListing.txt
Output Set: **N:\CRF4\11192002\I634363.raw**

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199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 4
203 Met Arg Pro His Leu Ser Pro Pro Leu Gln Gln Leu Leu Leu Pro Val
204 1               5                   10              15
207 Leu Leu Ala Cys Ala Ala His Ser Thr Gly Ala Leu Pro Arg Leu Cys
208             20                  25                  30
211 Asp Val Leu Gln Val Leu Trp Glu Glu Gln Asp Gln Cys Leu Gln Glu
212         35                  40                  45
215 Leu Ser Arg Glu Gln Thr Gly Asp Leu Gly Thr Glu Gln Pro Val Pro
216     50                  55                  60
219 Gly Cys Glu Gly Met Trp Asp Asn Ile Ser Cys Trp Pro Ser Ser Val
220 65                  70                  75                  80
223 Pro Gly Arg Met Val Glu Val Glu Cys Pro Arg Phe Leu Arg Met Leu
224             85                  90                  95
227 Thr Ser Arg Asn Gly Ser Leu Phe Arg Asn Cys Thr Gln Asp Gly Trp
228             100                 105                 110
231 Ser Glu Thr Phe Pro Arg Pro Asn Leu Ala Cys Ala Val Asn Val Asn
232         115                 120                 125
235 Asp Ser Ser Asn Glu Lys Arg His Ser Tyr Leu Leu Lys Leu Lys Val
236     130                 135                 140
239 Met Tyr Thr Val Gly Tyr Ser Ser Ser Leu Val Met Leu Leu Val Ala
240 145                 150                 155                 160
243 Leu Gly Ile Leu Cys Ala Phe Arg Arg Leu His Cys Thr Arg Asn Tyr
244             165                 170                 175
247 Ile His Met His Leu Phe Val Ser Phe Ile Leu Arg Ala Leu Ser Asn
248             180                 185                 190
251 Phe Ile Lys Asp Ala Val Leu Phe Ser Ser Asp Asp Val Thr Tyr Cys
252         195                 200                 205
255 Asp Ala His Arg Ala Gly Cys Lys Leu Val Met Val Leu Phe Gln Tyr
256     210                 215                 220
259 Cys Ile Met Ala Asn Tyr Ser Trp Leu Leu Val Glu Gly Leu Tyr Leu
260 225                 230                 235                 240
263 His Thr Leu Leu Ala Ile Ser Phe Phe Ser Glu Arg Lys Tyr Leu Gln
264             245                 250                 255
267 Gly Phe Val Ala Phe Gly Trp Gly Ser Pro Ala Ile Phe Val Ala Leu
268             260                 265                 270
271 Trp Ala Ile Ala Arg His Phe Leu Glu Asp Val Gly Cys Trp Asp Ile
272         275                 280                 285
275 Asn Ala Asn Ala Ser Ile Trp Trp Ile Ile Arg Gly Pro Val Ile Leu
276     290                 295                 300
279 Ser Ile Leu Ile Asn Phe Ile Leu Phe Ile Asn Ile Leu Arg Ile Leu
280 305                 310                 315                 320
283 Met Arg Lys Leu Arg Thr Gln Glu Thr Arg Gly Asn Glu Val Ser His
284             325                 330                 335
287 Tyr Lys Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile Pro Leu Phe Gly
288             340                 345                 350
291 Ile His Tyr Ile Val Phe Ala Phe Ser Pro Glu Asp Ala Met Glu Ile
292         355                 360                 365
295 Gln Leu Phe Phe Glu Leu Ala Leu Ala Ser Phe Gln Gly Leu Val Val
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RAW SEQUENCE LISTING   DATE: 11/19/2002
PATENT APPLICATION: **US/09/634,363**   TIME: 14:23:59

Input Set : **N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-**
058SequenceListing.txt
Output Set: **N:\CRF4\11192002\I634363.raw**

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296     370                   375                   380
299 Ala Val Leu Tyr Cys Phe Leu Asn Gly Glu Val Gln Leu Glu Val Gln
300 385                   390                   395                   400
303 Lys Lys Trp Gln Gln Trp His Leu Arg Glu Phe Pro Leu His Pro Val
304                   405                   410                   415
307 Ala Ser Phe Ser Asn Ser Thr Lys Ala Ser His Leu Glu Gln Ser Gln
308                   420                   425                   430
311 Gly Thr Cys Arg Thr Ser Ile Ile
312         435                   440
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VERIFICATION SUMMARY　　　　　　　　　DATE: 11/19/2002
PATENT APPLICATION:　**US/09/634,363**　　TIME: 14:24:00

Input Set : **N:\Crf3\dbback2\Datahold\EFS\09634363\CIBT-P02-**
058SequenceListing.txt
　　　　　　　Output Set: **N:\CRF4\11192002\I634363.raw**

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L:71 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:69